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Minimum
Maximum
                                                                                                                                                                                                                                                                                                                                                                                                                              Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Database
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Searched:
                                                                                                                                                                                                                                                                                                                                                                                                 õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A_Geneseq_36:*

1: /SIDS1/gegda*

2: /SIDS1/gegd*

4: /SIDS1/gegd*

4: /SIDS1/gegd*

5: /SIDS1/geg*

6: /SIDS1/geg*

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7: /SIDS1/ge

8: /SIDS1/ge

9: /SIDS1/ge

10: /SIDS1/ge

11: /SIDS1

12: /SIDS1

13: /SIDS

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15: /SIJ

16: /SIJ

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21: /SIJ

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22: /SIJ

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27: /SIJ

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20: 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB
                                                                                     130.5
127.5
126.5
92
87
86.5
                                                                                                                                                                                                                                                                                                                                                                                                 Score
   85.5
84.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    seq length: 0 seq length: 2000000000
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   100.0
100.0
38.9
38.2
37.3
37.0
25.9
25.9
25.1
25.1
                                                                                                                                                                                                                                                                                                                                                                                                 Match Length DB
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Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-331-631A-7_COPY_81_140
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 LQRQYQQCQGRCQEQQQGQR.....HENYHNHKKNRSEEEEGQQR 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         268485 seqs, 34193795 residues
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Copyright (c) 1993 - 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /SIDS1/gcgdata/geneseq/geneseqp/AA1982_DAT:*
/SIDS1/gcgdata/geneseq/geneseqp/AA1983_DAT:*
/SIDS1/gcgdata/geneseq/geneseqp/AA1984_DAT:*
/SIDS1/gcgdata/geneseq/geneseqp/AA1985_DAT:*
/SIDS1/gcgdata/geneseq/geneseqp/AA1986_DAT:*
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/SIDS1/gcgdata/geneseq/geneseqp/AA1988_DAT:*
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/SIDS1/gcgdata/geneseq/geneseqp/AA1981.DAT:*
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/SIDS1/gcgdata/geneseq/geneseqp/AA1998.DAT:*
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/SIDS1/gcgdata/geneseq/geneseqp/AA2000.DAT:*
525
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2023
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                                                        W62831

W20181

W62832

W62829

W62828

W62830

W62830

W628319

Y54319

Y07067

W03474

Y54320
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Compugen Ltd
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9.750 Million cell updates/sec
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                                                                                                                                                                          Gossypium hirsutum
Macadamia integrif
Macadamia integrif
Macadamia integrif
                                                  Amino acid sequenc
Renal cancer assoc
Mouse SRY-related
Amino acid sequenc
                                                                                                                                                                                                                                                                                                                                                                                           Description
                                                                                                                                                                                                                                                                                                  Theobroma cacao an 
Sequence encoded b
                            gondii
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72 2	4 72 21.	72 2	2 72 21.	1 72.5 21.	0 72.5 21.	9 72.5 21.	8 72.5 21.	7 73.5 21.	6 73.5 21.	5 73.5 21.	4 74 21.	3 74 21.	2 74.5 21.	1 74.5 21.	0 74.5 21.	9 75 21.	8 76 22.	7 76 22.	6 78.5 23.	5 80 23.	4 80 23.	3 81 23.	2 81 23.	1 81 23.	0 82 2	9 82 24.	8 83.5 24.	7 83.5 2	6 83.5 24.	5 84.5 2	4 84.5 2
24 2	521 19	44 2	4 2	2	2	N	N	9	ш		N	N	N	N	N		N	_	_	N	_	N	_	N	N	سو	N		_	N	N
W9033	Σ.	W9034	Y33	W8102	Y559	W9034	W9034	Y5863	W3921		W9507	W9507	Y3201							Y30795				_					P9310		W95
G. max SBP1 prote		G. max truncated S	Human unliganded a	Murine pCIP protei	Human ZC2 protein.	G. max SBP2 protei	G. max truncated :	Protein regulating	evis	. Sa		Amino acid sequenc	Drosophila melanoc	feri	orferi an	phospha	Human ZC3 protein.	Hordeum vulgare an	Human follicle sti	hya	Leucocytozoan prot	T)	Zea mays antimicro	Epitope tagged TBP		Stenocarpus sinuat	Human androgen rec	_	_	GST-HD fusion prot	GST-HD fusion prot

ALIGNMENTS

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W62831
                                                                                                                                                                                                                                                                                                                                                                           RESULT
The sequence is that of an antimicrobial protein which can be used to control microbial infestations in plants and mammalian
                                Claim 1; Page 47-49; 96pp; English.
                                                   Novel anti-microbial protein from e.g. Macadamia useful for controlling microbial infestations of
                                                                                                                                (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY
                                                                                                                                                                                                                                           Theobroma cacao
                                                                                                                                                                                                                                                                                                                                 W62831;
                                                                                                                                                                                                                                                                                                                                                   W62831 standard; Protein; 525 AA.
                                                                                      WPI; 1998-377279/32.
                                                                                                                                                      20-DEC-1996;
                                                                                                                                                                                                 02-JUL-1998.
                                                                                                                                                                                                                     WO9827805-A1.
                                                                                                                                                                                                                                                                antimicrobial protein; infestation; control.
                                                                                                                                                                                                                                                                                     Theobroma cacao antimicrobial protein.
                                                                                                                                                                                                                                                                                                           27-OCT-1998
                                                                                                           Bower NI, Goulter KC, Green JL,
                                                                                                                                                                           22-DEC-1997;
                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                      96AU-0004275
                                                                                                                                                                           97WO-AU00874.
                                                                                                           Manners JM, Marcus
                                                      integrifolia
plants or man
                                                       mammals
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RESULT
W62832
ID W6
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                                                                                                                      RESULT
R20181
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                                                                            Matches
                                                                                     Best Local
                                                                                             Query Match
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Best Local
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W62832 standard;
                                                                                                                                            The inventors claim a 67 kD and 31 kD T. cacao protein, and fragments, and encoding DNAs. The 47 kD and 31 kD proteins are derived from the 67 kD precursor. T. cacao protein cDNA was detected in a cDNA library prepared from immature cocoa beans RNA using a probe based on the AA sequence of a CNBr peptide common to the 47 kD and 31 kD polypeptides. Homology searches revealed close homologies between the 67 kD polypeptide and the vicilins, which are
                                                                                                                      Sequence
                                                                                                                                                                                                                  Claim 4; Fig 2; 59pp; English.
                                                                                                                                                                                                                                   expression vectors
                                                                                                                                                                                                                                          Recombinant cocoa proteins -
beans and produced in large c
                                                                                                                                                                                                                                                                            WPI; 1992-024418/03
                                                                                                                                                                                                                                                                                            Spencer ME, Hodge R,
                                                                                                                                                                                                                                                                                                                              11-JUN-1990;
                                                                                                                                                                                                                                                                                                                                              07-JUN-1991;
                                                                                                                                                                                                                                                                                                                                                                26-DEC-1991
                                                                                                                                                                                                                                                                                                                                                                                WO9119801-A
                                                                                                                                                                                                                                                                                                                                                                                               Theobroma cacao.
                                                                                                                                                                                                                                                                                                                                                                                                               Cocoa; flavour; vicilin; seed storage protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   R20181;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    R20181 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        animals.
                                                                                                                                                                                                                                                                                                             (MRSC ) MARS UK LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                  16-APR-1992 (first entry)
                                          81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
nes 60; Conserv
                                                  1 LQRQYQQCQGRCQEQQQGQREQQQCQRKCWEQQYKEQERGEHENYHNHKKNRSEEEEEGQQR 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 LQRQYQOCQGRCQEQQQGQREQQQCQRKCWEQYKEQERGEHENYHNHKKNRSEEEEEGQQR 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N
                                                                                                                                       storage proteins.
                                          lqrqyqqcqgrcqeqqqqqrqrkcweqykeqergehenyhnhkknrseeeegqqr 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            lqrqyqqcqgrcqeqqqqqqqqqcqrkcweqykeqergehenyhnhkknrseeeegqqr 140
                                                                            1 Similarity
60; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                               encoded by 67 kD
                                                                                                                      566 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        525
                                                                           100.0%; llarity 100.0%; Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                              91WO-GB00914.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AA;
                                                                                                                                                                                                                                                                                                                              90GB-0013016
Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%;
                                                                                                                                                                                                                                                                                             Deakin EA,
 590
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    566
                                                                                                                                                                                                                                                                                                                                                                                                                                 7
                                                                            0;

    are responsible for flavour in cocoa
quantities using yeast and bacterial

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                                                                                                                                                                                                                                                                                                                                                                                                                                 cacao protein cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 342; DB 19;
Pred. No. 1.9e-29;
); Mismatches 0;
                                                                           Score 342; DB 13;
Pred. No. 2e-29;
; Mismatches 0;
A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ΑA
                                                                                                                                                                                                                                                                                             Ashton S;
                                                                                            DB 13;
                                                                                             Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length
                                                                                             566;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              525;
                                                                           0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
                                                                          Gaps
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                                                                           0;
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                                                                                                                                                                                RESULT
W62829
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                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                       W62829;
                                                         Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               W62832;
                                                                                                                                                                                                                 181
                                                                                                                                                                                                                                 47
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Query Match
Best Local :
                                                                                                                                                           Macadamia integrifolia
                                                                                                                                                                                                   antimicrobial protein; infestation; control
                                                                                                                                                                                                                                           Macadamia integrifolia antimicrobial protein
                                                                                                                                                                                                                                                                                   27-OCT-1998
                                                                                                                                                                                                                                                                                                                                                                 W62829 standard, Protein; 666 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The sequence is that of an antimicrobial protein which can be used to control microbial infestations in plants and map {\bf map}
W09827805-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          animals.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 1; Page 49-51; 96pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel anti-microbial protein from e.g. Macadamia integrifolia useful for controlling microbial infestations of plants or mammals \ensuremath{\mathsf{N}}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              02-JUL-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                antimicrobial protein; infestation; control
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gossypium hirsutum antimicrobial protein.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20-DEC-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       22-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                27-0CT-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121 grgfgecgghchggegrpekkggcvrecrekygenpwrgereeeaeeeeteegegegshn 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2 QRQYQQCQGRCQEQQQGQREQQQCQRKCWEQYKEQ-------ERGEHENYHN 46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  pfhfhrrsfqsrfreehgnfr 201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ----HKK---NRSEEEEGQQR 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Goulter KC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                590 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               96AU-0004275.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       97WO-AU00874.
                                                        /note= "signal
29..666
                                   /note= "mature protein"
                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                38.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Green JL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 133; DB
Pred. No. 7.3e
12; Mismatches
                                                                           peptide"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Manners JM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 19;
.3e-07;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 590;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           mammalian
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                        WPI; 1998-377279/32.
N-PSDB; V42316.
Novel anti-microbial protein from e.g. Macadamia integrifolia
                                                                                                                                                                                                                                                                                                                                        W62830;
                                                                                                                                          02-JUL-1998
                                                                                                                                                                                               Protein
                                                                                                                                                                                                                                                  Macadamia integrifolia.
                                                                                                                                                                                                                                                                       antimicrobial protein; infestation; control
                                                                                                                                                                                                                                                                                            Macadamia integrifolia antimicrobial protein
                                                                                                                                                                                                                                                                                                                 27-OCT-1998
                                                                                                                                                                                                                                                                                                                                                            W62830 standard; Protein; 625
                                                                                                 20-DEC-1996;
                                                                                                                      22-DEC-1997;
                                                                                                                                                                W09827805-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The sequence is that of an antimicrobial protein which can be used to control microbial infestations in plants and mammalian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Novel anti-microbial protein from e.g. Macadamia integrifolia - useful for controlling microbial infestations of plants or mammals
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1998-377279/32.
N-PSDB; V42311.
                                                       Bower NI,
                                                                           (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
                                                                                                                                                                                                                   Peptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20-DEC-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Page 39-41; 96pp; English.
                                                       Goulter KC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Goulter KC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         666 AA;
                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                 96AU-0004275
                                                                                                                      97WO-AU00874
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                                                                                                                                                                                /note= "signal peptide"
29..666
/note= "mature protein"
                                                                                                                                                                                                                           Location/Qualifiers
                                                      Green JL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Green JL,
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                                                      Manners JM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Manners JM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 19; Length 666;
                                                      Marcus
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Query Match
Best Local Similarity
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Best Local Similarity 34.3%; Pred. No. 3e-06;
Matches 24; Conservative 13; Mismatches 22;
                                                                                        The sequence is that of an antimicrobial protein which can be used to control microbial infestations in plants and mammalian animals.
                                                            Sequence
                                                                                                                                                 Claim 1; Page 34-36; 96pp; English.
                                                                                                                                                                              Novel anti-microbial protein from e.g. Macadamia useful for controlling microbial infestations of
                                                                                                                                                                                                                             WPI; 1998-377279/32.
N-PSDB; V42310.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Macadamia integrifolia.
                                                                                                                                                                                                                                                                          Bower NI, Goulter KC,
                                                                                                                                                                                                                                                                                                                                    20-DEC-1996;
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                                                                                                                                                                                                                                                                                                      (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY
                                                                                                                                                                                                                                                                                                                                                                  22-DEC-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       useful for controlling microbial infestations of plants or mammals
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  142 gdnkrdpqqr 151
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 QRQYQQCQGRCQEQQQCQREQQQCQRKC-----WEQYKEQERGEHENYHNHKKN 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         σ
                                                             666 AA;
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29..666
/note= "mature protein"
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37.0%;
32.9%;
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Score 126.5; DB 19; Pred. No. 4.2e-06;
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                                                                                                                                                                                                                                                                          Marcus
                                                                                                                                                                               integrifolia -
plants or mammals
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            Length 666;
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                                                                                                                                                            The present sequence represents a murine PCTG4 protein. Polymorphisms CC in the human PCTG4 region of chromosome Xql3 area associated with CC mental retardation, autism, depression, bipolar affective disorder or CC hypothyroidism. One 12 bp insertion polymorphism occurs within the CC coding region of the human OPA gene, and introduces a 4 amino acid CC insertion in a putative OPA domain. This domain has been shown to be involved in tissue specific expression. Another polymorphism consists of a pentanucleotide repeat approximately 7 kb upstream of the 12 bp CC polymorphism. Another polymorphisms consists of a dinucleotide repeat approximately 4.5 kb downstream of the 12 bp polymorphism. The CC approximately 4.5 kb downstream of the 12 bp polymorphisms in a PCTG4 nucleic acid sequence obtained from a subject. The PCTG4 related CC secretated with neuropsychiatric disorders. The methods can be used to screen for the presence of a heritably linked form of mental retardation, autism, depression, bipolar affective disorder or hypothyroidism.
                                                                   Query Match
Best Local
                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 7; Page 81-84; 100pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Identification of polymorphisms in the PCTG4 region of Xq13 diagnosing mental retardation or autism \dot{\cdot}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2000-126357/11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (USSH ) US DEPT HEALTH & HUMAN SERVICES (IOWA ) UNIV IOWA RES FOUND.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; PCTG4 region; X chromosome; q13 region; polymorphism; mental retardation; autism; depression; bipolar affective disorder; hypothyroidism; OPA gene; neuropsychiatric disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Amino acid sequence of a murine PCTG4 protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             06-APR-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Y54319 standard; Protein; 2074 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Philibert RA, Ginns EI;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          183 ednkrdpqqr 192
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                  2 QRQYQQCQGRCQEQQQGQREQQQCQRKCWEQYKEQERGEHENYHNHKKNRSEEEEEGQQR 60
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 l Similarity
18; Conserv
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                                                                                                                                    2074 AA;
                                                    Conservative
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                                                                   26.9%;
                                                    21;
                                                 ; Score 92; DB;
; Pred. No. 0.07;
21; Mismatches
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Query Match Best Local : Matches 1:

Local Similarity mes 15; Conser

25.4%; Score 87; DB 20; Length 482; ilarity 25.4%; Pred. No. 0.054; Conservative 22; Mismatches 22; Indels

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17-JUL-1997;
10-OCT-1997;
10-OCT-1997;
10-OCT-1997;
11-OCT-1997;
                                                                                         The invention relates to a method for diagnosing a disorder characterised by expression of a human cancer associated antigen precursor coded for by a nucleic acid molecule (NAM). The method comprises: (a) contacting a biological sample isolated from a subject with an agent that specifically binds to the NAM, an expression product or a fragment of an expression product complexed with an HLA molecule; and (b) determining the interaction between the agent and the NAM or the expression product as a determination of the disorder. The products and methods can be used in the diagnosis, monitoring, research, or treatment of conditions characterised by the expression of various cancer associated antigens.
Sequence
                                            The invention provides nucleic acid sequences and encoded polypeptides which are cancer associated antigen precursors expressed in human breast cancer, renal cancer, colon cancer, gastric cancer, prostate cancer and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cancer associated antigen; diagnosis; research; treatment; breast cancer; colon cancer; gastric cancer; renal cancer;
                                                                                                                                                                                                                                                                           Disclosure; Page 467-468; 787pp; English
                                                                                                                                                                                                                                                                                                       New isolated cancer associated nucleic acids and polypeptides - isolated using sera from cancer patients, used to develop productor the diagnosis, monitoring or treatment of cancers
                                                                                                                                                                                                                                                                                                                                                                        WPI; 1999-132448/11.
                                                                                                                                                                                                                                                                                                                                                                                                                    Pfreundschuh M,
                                                                                                                                                                                                                                                                                                                                                                                                                                     Chen Y,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Renal cancer associated antigen precursor sequence
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                                 cancer.
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 482 AA;
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97US-0896164.
97US-0061599.
97US-0061765.
97US-0948705.
97GB-0021697.
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RESULT 10
Y54320
ID Y54320
XX Y54320
XX O6-APR
DT O6-APR
XX DE Amino
XX Human;
KW Human;
KW mental;
KW hypoth
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This is the amino acid sequence of a mouse SRY-related protein. The gene was isolated from a mouse genomic library using a cDNA fragment amplified by primers T33009-10 as a probe. The screen isolated 4 EcoRI fragments of 2.3, 2.8, 3.5 and 1.5 kb covering the gene. Sequence analysis revealed a 240 bp HMG box sequence between bases 7134-7393. Similarity with the
               Human; PCTG4 region; X chromosome; q13 region; polymorphism; mental retardation; autism; depression; bipolar affective disorder; hypothyroidism; OPA gene; neuropsychiatric disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           human SRY HMG box sequence resulted in primers being generated to amplify the human SRY HMG box sequence for use as a probe to isolate the bovine SRY-related gene (T33008). The mouse and bovine genes are useful for determining the sex of an animal prior to birth.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bovine and mouse \operatorname{Sry-related}\,\operatorname{DNA} - useful for detecting e.g. the of unborn animals
                                                                           Amino acid sequence of a human PCTG4 protein.
                                                                                                         06-APR-2000
                                                                                                                                                                  Y54320 standard; Protein; 2023 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
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N-PSDB; T33007.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              30-NOV-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mouse; SRY; primer; PCR; polymerase chain reaction; amplification; probe; HMG box; human; bovine; sex; animal; birth.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mouse SRY-related protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  23-OCT-1996 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            W03474 standard; Protein;
                                                                                                                                                                                                                                                                                               160 qqqqqfydhhqqqqqqqqqqqqfhdhhqekqefhdhhqqqqqfhdhhhhqeqqfhdhhq 219
                                                                                                                                                                                                                                        220 qqq
                                                                                                                                                                                                                                                                                                                                                         Local Similarity
nes 17; Conserv
                                                                                                                                                                                                                                                                     58 QQR 60
                                                                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                          222
                                                                                                                                                                                                                                                                                                                                                                                                                                 395 AA;
                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             94JP-0319525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          94JP-0319525
                                                                                                                                                                                                                                                                                                                                                                       25.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             395 AA
                                                                                                                                                                                                                                                                                                                                                           21;
                                                                                                                                                                                                                                                                                                                                                        Score 86.5; DB Pred. No. 0.049; 1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                     DB 17;
                                                                                                                                                                                                                                                                                                                                                           20;
                                                                                                                                                                                                                                                                                                                                                                                     Length
                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                       395;
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                                                                                                                                                                                                                                                                                                                                                      Gaps
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Q
                                                                                                                     Query Match
Best Local
                                  Matches
                                                                                                                                                                                                                                           The present sequence represents a human PCTG4 protein. Polymorphisms in the human PCTG4 region of chromosome Xq13 are associated with mental retardation, autism, depression, bipolar affective disorder or hypothyroidism. One 12 bp insertion polymorphism occurs within the coding region of the human OPA gene, and introduces a 4 amino acid insertion in a putative OPA domain. This domain has been shown to be involved in tissue specific expression. Another polymorphism consists of a pentanucleotide repeat approximately 7 kb upstream of the 12 bp polymorphism. Another polymorphisms consists of a dinucleotide repeat approximately 4.5 kb downstream of the 12 bp polymorphism. The
                                                                                                                                              specification describes a method for screening for polymorphisms in a PCTG4 nucleic acid sequence obtained from a subject. The PCTG4 related sequences within the q13 region of the X chromosome have polymorphisms associated with neuropsychiatric disorders. The methods can be used to screen for the presence of a heritably linked form of mental retardation, autism, depression, bipolar affective disorder or hypothyroidism.
                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Identification of polymorphisms in the PCTG4 region of Xq13 for diagnosing mental retardation or autism -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPT; 2000-126357/11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Philibert RA,
                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SO (HSSO)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           04-NOV-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (IOWA ) UNIV IOWA RES FOUND
                                  18;
                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                  Page 81-84; 100pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DEPT HEALTH & HUMAN SERVICES.
                                                                                                                    2023 AA;
                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ginns
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         98US-0083465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99WO-US09365
                                                25.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ΕI;
                                18;
                                                  Pred.
                                                                Score 86;
                                  Mismatches
                                                  No.
                                                  0.32;
                                                                 DB 21;
                                  23;
                                                              Length 2023;
                                Indels
                                0
                             Gaps
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1899
                                                                    2 QRQYQQCQGRCQEQQQGQREQQQCQRKCWEQYKEQERGEHENYHNHKKNRSEEEEGQQR 60
qqqqqqqqqqqqqqqqqqqqqyhirqqqqqilrqqqqqqqqqqqqqqqqqqqqqqqq
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RESULT 11
Y29039
        18-DEC-1998;
                                                                                                                               T. gondii immunogenic protein.
                           01-JUL-1999
                                                                                                                                                    24-SEP-1999 (first entry)
                                                                                                                                                                         Y29039
                                               WO9932633-A1
                                                                   Toxoplasma gondii
                                                                                        Toxoplasma
                                                                                                Immunogenic protein; Toxoplasma gondii protein; oocyst shedding; cat; Jondii infection; enteric apicomplexa oocyst; Cryptosporidium oocy
                                                                                                                                                                                           Y29039 standard; Protein; 611 AA
                                                                                        oocyst
        98WO-US27137.
                                                                                               Cryptosporidium oocyst;
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RESULT
W95073
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ър
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local :
WPI; 1999-153955/13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention provides isolated Toxoplasma gondii nucleic acids that encode immunogenic polypeptides. The T. gondii nucleic acid molecules, immunogenic proteins and antibodies to the proteins can be used to inhibit T. gondii occyst shedding in a cat due to infection with T. gondii. They can be used for preventing T. gondii infection and for preventing the spread of T. gondii infection. They can also be used for detection T. gondii infection. They can also be used for perventing T. gondii infection. The detection method can be used to detect parasite cysts or occysts in feces, e.g. from enteric apicomplexa occysts such as Cryptosporidium occysts and Toxoplasma occysts.
                                                                                 01-AUG-1997;
                                                                                                                                                                                                                                                                                                                     Amyloid-like fibril; protein aggregate; inhibitor; inclusion body; polyglutamine expansion; Huntington's disease; Alzheimer's disease; HD; Parkinson's disease; spinal; bulbar muscular atrophy; type II diabetes; systemic amyloidosis; spinocerebellar ataxia; kuru; familial insomnia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 29;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1999-418930/35
                           Bates G,
                                                                                                                                         11-FEB-1999
                                                                                                                                                                   WO9906838-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                      W95073
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               W95073 standard; Protein; 86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19-DEC-1997;
                                                      (PLAC ) MAX PLANCK GES FOERDERUNG
                                                                                                             31-JUL-1998;
                                                                                                                                                                                                                         Misc-difference
                                                                                                                                                                                                                                                                                                           bovine spongiform encephalopathy; kuru; scrapie; GST-HD; fusion protein
                                                                                                                                                                                                                                                                                                                                                                                                                         20-MAY-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New isolated Toxoplasma gondii nucleic acids used, e.g. infection caused by this microorganism % \left( \left( 1\right) \right) =\left( 1\right) ^{2}
                                                                                                                                                                                                                                                                  Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 447 rveeekargreeeererrrveeekerergeeererrrveeekerergeeeererr 501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity 34.5 hes 19; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11 RCQEQQQGQREQQQCQRKCWEQYKEQERGEHENYHNH-----KKNRSEEEEGQQR 60
                                                                                                                                                                                                                                                                  sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       X91242.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Milhausen
                          Lehrach H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Page 227-229;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             611 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                 97EP-0113320
                                                                                                             98WO-EP04810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     97US-0994825
                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                                                                                                                                         /note= "this residue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ľ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25.0%; Score 85.5; 34.5%; Pred. No. 0
                                                                                                                                                                                                                                                                                                                                                                                             GST-HD51DELP
                           Scherzinger
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              381pp; English
                                                                                                                                                                                               which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ŋ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RK;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                           Ħ
                                                       WISSENSCHAFTEN
                                                                                                                                                                                              is connected indicated in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20;
                                                                                                                                                                                              the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length
                                                                                                                                                                                                           D
                                                                                                                                                                                            a GST protein
sequence"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ţ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    611;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          treat
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to the detection of amyloid-like fibrils or protein aggregates, insoluble in detergents or urea. The method comprises: (a) applying material suspected of containing protein aggregates to a filter; and (b) detecting retention of protein aggregates on the filter. This method also helps to identify inhibitors of protein aggregates formation. The method is particularly used to detect protein aggregates that are indicative of disease, for assessing onset or progression of the diseases. The inhibitors identified are potential therapeutic agents for treating the diseases. Other applications include detection of inclusion bodies in bacteria and to study kinetics of aggregate formation. Diseases associated with polyglutamine expansion are particularly diagnosed, e.g. Huntington's, Alzheimer's or parkinson's diseases; spinal and bulbar muscular atrophy; spinocerobellar ataxia; systemic amyloidosis; type II diabetes; bovine spongiform encephalopathy; kuru; familial insomnia; sorapie. The protein aggregates can now be detected simply, routinely and can be made quantitative, by analysing a series of dilutions, and can be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local
                                                                                                                                                                                                                                                                                                           Fusion protein; amyloidogenic polypeptide; amyloid-like fibril; scrapie; protein aggregate; Alzheimer's disease; CAG-repeat expansion; spinal; Huntington's disease; bulbar muscular atrophy; spinocerebellar ataxia; dentatorubral pallidoluysian atrophy; Creutzfeld-Jakob disease; enzyme;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; Fig 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Detecting amyloid-like fibrils or protein aggregates insoluble in detergent or urea - from their retention on a filter, used for diagnosis, particularly of diseases associated with polyglutamine
                             01-AUG-1997;
                                                                                                                                                                                                                                                                                                                                                                                             GST-HD fusion protein GST-HD51DELP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              W95078
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                             31-JUL-1998;
                                                                                                                               WO9906545-A2
                                                                                                                                                                                              Misc-difference
                                                                                                                                                                                                                                               Homo
                                                                                                                                                                                                                                                                Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                              20-MAY-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3 ROYOOCOGRCQEQQQGQREQQQCQRKCWEQYKEQERGEHENYHNHKKNRSEEEEEGQQ 59
                                                                                                                                                                                                                                               sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              standard; Protein; 86
                                                                                                                                                                                                                                                                                             HD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            W95072-75 represent GST-HD fusion proteins.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AA;
                              97EP-0113306
                                                             98WO-EP04811
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /note= "this residue which is not
                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            56pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               24.7%;
28.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 84.5;
Pred. No. 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                          is connected to a GST protein indicated in the sequence"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .016;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 86;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
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(PLAC) MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN

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RESULT 14
W95075
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gusion protein, and (ii) amyloidogenic (poly)peptide that can self-
cassemble into amyloid-like fibrils or protein aggregates. Host cells
transformed with a vector containing the nucleic acid encoding the fusion
protein are used for the recombinant expression of the fusion protein.
The composition is used to detect onset and progression of diseases
associated with fibrils/protein aggregates. It is potentially useful for
treatment of such diseases (e.g. Alzhelmer's disease, scraple or CAG-
repeat expansion conditions such as Huntington's disease (HD), spinal and
bulbar muscular atrophy, dentatorubral pallidoluysian atrophy,
spinal and
precise starting time for aggregate formation, allowing kinetic
measurements, and use of an enzyme for cleavage allows testing under
physiological conditions. Sequences W95077-80 represent GST-HD fusion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                        Amyloid-like fibril, protein aggregate; inhibitor; inclusion body; polyglutamine expansion; Huntington's disease; Alzheimer's disease; HD; Parkinson's disease; spinal; bulbar muscular atrophy; type II diabetes; systemic amyloidosis; spinocerebellar ataxia; kuru; familial insomnia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Composition containing fusion protein that includes amyloidogenic peptide - able to self-assemble into fibrils or aggregates, used detect and monitor neuronal diseases, and also to screen for
 01-AUG-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                               W95075 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a composition comprising a fusion protein of (poly)peptide that increases solubility and/or prevents aggregation of
                              31-JUL-1998;
                                                            11-FEB-1999
                                                                                        W09906838-A2
                                                                                                                                                    Misc-difference
                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                 Synthetic
                                                                                                                                                                                                                                            bovine spongiform encephalopathy; kuru;
                                                                                                                                                                                                                                                                                                                                                                    20-MAY-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Fig 8; 62pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  therapeutic inhibitors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1999-153775/13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  l Similarity
16; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Lehrach H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                    protein GST-HD51DELPBio.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A
97EP-0113320
                              98WO-EP04810
                                                                                                                  /note= "this residue is connected to a GST protein
   which is not indicated in the sequence"
                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  24.7%;
28.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Scherzinger E,
                                                                                                                                                                                                                                                                                                                                                                                                                               94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 84.5; DB
Pred. No. 0.016;
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                               B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Wanker E;
                                                                                                                                                                                                                                            scrapie;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17;
                                                                                                                                                                                                                                            GST-HD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                          fusion protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6
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В
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The method is particularly used to detect protein aggregates that are indicative of disease, for assessing onset or progression of the diseases. The inhibitors identified are potential therapeutic agents for treating the diseases. Other applications include detection of inclusion bodies in bacteria and to study kinetics of aggregate formation. Diseases associated with polyglutamine expansion are particularly diagnosed, e.g. Huntington's, Alzheimer's or Parkinssion are particularly and bulbar muscular attophy; spinocerabellar ataxia; systemic amploidosis; type II diabetes; bovine spongiform encephalopathy; kuru; familial insommia; scrapte. The protein aggregates can now be detected simply, routinely and
                                                                                                                                                                                                             protein aggregate; Alzheimer's
Huntington's disease; bulbar mu
dentatorubral pallidoluysian al
                                                                                                                                                                                                                                                                                               GST-HD fusion protein GST-HD51DELPBio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           rapidly, without requiring sophisticated equipment. The method can be made quantitative, by analysing a series of dilutions, and can be automated to allow many samples to be analysed on the same filter. Sequences W95072-75 represent GST-HD fusion proteins.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            applying material suspected of containing protein aggregates to a filter and (b) detecting retention of protein aggregates on the filter. This method also helps to identify inhibitors of protein aggregates formation
                                W09906545-A2
                                                                                                                                                 Homo
                                                                                                                                                                                                 GST-HD; HD
                                                                                                                                                                                                                                                             Fusion protein; amyloidogenic polypeptide; amyloid-like fibril; scrapie;
                                                                                                                                                                                                                                                                                                                                  20-MAY-1999
                                                                                                                                                                                                                                                                                                                                                                                               W95080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to the detection of amyloid-like fibrils or protein aggregates, insoluble in detergents or urea. The method comprises: (a)
                                                                                                                                                                 Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Fig
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             diagnosis, particularly of diseases associated with polyglutamine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Detecting amyloid-like fibrils or protein aggregates insoluble in detergent or urea - from their retention on a filter, used for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bates
                                                                                                 Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1999-153955/13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (PLAC ) MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                 standard; Protein;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8; 56pp; English.
                                                             /note= "this residue is connected to a GST protein
which is not indicated in the sequence"
                                                                                                             Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               24.7%; 28.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Scherzinger E,
                                                                                                                                                                                                                                                                                                                                                                                                 94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 84.5; DB Pred. No. 0.018;
                                                                                                                                                                                                           's disease; CAG-repeat expansion; spinal; muscular atrophy; spinocerebellar ataxia; atrophy; Creutzfeld-Jakob disease; enzyme
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               17;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length
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                                                                                                       Вb
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                                                                                                                                                                                                                                                                                              The invention relates to a composition comprising a fusion protein of (i) (c) (poly)peptide that increases solubility and/or prevents aggregation of the fusion protein, and (ii) amyloidogenic (poly)peptide that can self-composition amyloid-like fibrils or protein aggregates. Host cells assemble into amyloid-like fibrils or protein aggregates. Host cells cassemble into amyloid-like fibrils or protein aggregates. Host cells cassemble into amyloid-like fibrils or protein aggregates. Host cells cassemble into amyloid-like fibrils protein aggregates. It is potentially useful for the recombinant expression of diseases cassociated with fibrils/protein aggregates. It is potentially useful for treatment of such diseases (e.g. Alzhelmer's disease, scrapie or CAG-crepeat expansion conditions such as Huntington's disease (HD), spinal and bulbar muscular atrophy, dentatorubral pallidollysian atrophy, spinal and concerebellar ataxia, Creutzfeld-Jakob disease). Assay methods based on crelease of the amyloidogenic polypeptide from fusion protein have a complete starting time for aggregate formation, allowing kinetic measurements, and use of an enzyme for cleavage allows testing under physiological conditions. Sequences w95077-80 represent GST-HD fusion
                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; Fig 8; 62pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Composition containing fusion protein that includes amyloidogenic peptide - able to self-assemble into fibrils or aggregates, used to detect and monitor neuronal diseases, and also to screen for therapeutic inhibitors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1999-153775/13.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bates G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-AUG-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            31-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (PLAC ) MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN.
                                                                                              16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Lehrach H,
                                                                                                                                                                                                                                                                                            94 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 97EP-0113306
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                                                                                                                                                                                                        24.7%; Score 84.5; DB 20; 28.1%; Pred. No. 0.018;
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                                                                                                                                                                                21; Mismatches
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                                                                                                                                                                                    17;
                                                                                                                                                                                                                             Length
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